



KEY NOTE



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NETS
Sunday :0930 & 1430 on 7029. G0IHK
Sunday :US 2000Z on 14058. KC4UUG
Saturday: US 2000 EST on 14.058 NP2GP
DX 7/14/21/28.058 on the hour for 15mins
Pse keep watch all Novice allocations
UK Net Controls use GX0IPX/P
Slow Traffic Net Tues/Thurs 9pm EDT 3.682

North American Memo

by WZ8C Nancy Kott

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Phone : 1-810-797-5388

Hello North American FISTS! Notice anything different? I thought I would try an experiment this month. A FISTS member suggested I put the Memo first, since we are North American FISTS. I thought about it and it made sense to me from a "composing" point of view. I never know how much space to leave Geo each month for the British part of the Keynote. I generally leave the first four pages open, but it almost never ends up to be exactly four pages. I end up doing about two hours of juggling things around to get it to end up so there is enough space. This way, I can do "our" thing, and add the other later, and it won't matter how much space they need!

Thanks so much for the compliments on the Key-note, I'm glad you enjoy reading the N.A.. Memo. It's good to hear! I put a lot of hours into managing FISTS and putting this together, as you might imagine. It's good to know it's appreciated and worth the effort! I couldn't do it without input so please keep those letters, stories and suggestions coming!

This story shows a wonderful example of FISTS friendships at work, thanks for sharing, Diane!

Adventures at Sea with AA2WG, with a little help from her friends!

About five years ago, Roman and I, having a boat that could conceivably cross an ocean began to think of how we were going to communicate great distances with people on land. My stepson, a ham, said "get your license"! With the intention of only using it to keep in touch while /mm we did! Roman, the engineer, had no problem with the theory and got his Tech with 5 WPM with little difficulty. I, the psychotherapist, and not knowing and ohm from a wavelength. learned the



code with little difficulty and he taught me the rest. I earned my Amateur Extra in about two years. The reason the code was so much fun to learn was that as soon as I was had my General license (N2QPI) I got on 20 meters and was introduced to FISTS by Don KC4UUG, and operated only CW. After I learned Maggie NP2GP got her Extra, I thought I can do this too! Besides being an inspiration, she also sent me a computer program that helped me with the theory.

All this is an introduction to why I am really sending this note. In May, Roman and I were planning to sail to Bermuda by ourselves. We had done this twice before on our 37 ft. Catamaran "Dragonfly", with other crew, never alone. We are set up with a Yeasu 747 rig, with a sloping antenna up to the mast head, a manual Ten-Tec antenna tuner, and we had just plastered on a copper ground plate on the keel this Spring. In June, I wrote to Don and asked if he would be willing to keep a CW sked with us while at sea on QRG 14.058. Both he and Maggie said they would keep watch from 8-10 AM.

Also Don would phone my parents so they could know how we were doing. Maggie, being associated with the Coast Guard, was ready and willing to launch any rescue mission if we needed. The reason we became Hams was now being achieved. Fantastic! It was much more reassuring to have contacts with Hams I knew rather than depending on the SSB Marine Mobile Net.

Well, not only did they "keep watch" while we were at sea for those days in July, but their friendly and encouraging words were of much comfort. It is a joke in my family that my parents have heard Don's voice and I only his dits and dahs. They were quite incredulous that all this was done in Morse code. I can recognize both Don's and Maggie's fists. Who needs voice?

I really think they should be publicly commended for their time and commitment for being their while we were dealing with what Mother Nature offered up in the great Atlantic. 73, Diane AA2WG

Isn't that a terrific testament to the motto "When you've worked a FISTS, you've worked a friend", which was coincidentally coined by Don KC4UUG. Good work guys, that's what it's all about!

SIGNAL REPORTING - RST and Beyond *Marshall Emm, AA0XI / VK5FN*

Signal reporting is one of the first things we learn when we begin to explore the ether; unfortunately, a lot of us never get it quite right! An automatic 5/9/9 such as we use in contests is a waste of time and effort. A thoughtful report provides a wealth of information, much of it useful in the QSO. That's why the initial transmission from each station in a CW QSO should contain the RST and should be SHORT! After all, you need to know how well the other station hears you, and you want him or her to know how well YOU are copying.

In CW operation, the standard signal report is the "RST Report," a three digit number representing an appraisal of a received signal's readability (R), strength (S), and tone (T). Optional letters, described below, can be appended to the RST report as "technical modifiers," and are usually logged as such. Some of the Q-codes can also be used for signal report elaboration.

A good, accurate signal report will let the other station know that you are perfectly able to copy his signal, or if not, why not. By the same token, if you receive a readability report lower than 5, you should immediately consider steps you can take to make it easier for the other operator, using the strength report as a guide. You can ignore the Tone report, more about that later.

First let's look at the elements of the RST report.

READABILITY is reported on a scale of 1 to 5, where 1 represents no readability and 5 equals perfect copy. Assuming that "copy" is our ability to derive intelligence from a received signal, perfect copy would represent 100% reception with no difficulty. The scale is:

- 1 No readability
- 2 Barely readable (only occasional words)
- 3 Readable with difficulty
- 4 Readable with practically no difficulty
- 5 Perfectly readable.

In the R3 and R4 reports, note the word "difficulty." Keeping in mind that we are talking about actual signals here, you should ignore any "difficulty" that you experience due to your own copying ability or the other station's sending speed and spacing. If you do have problems copying for reasons other than technical signal quality, then you should use the relevant Q-codes or a gentle comment to get the situation rectified.

Note that there is no provision for a report of Readability 0—R1 means no readability, and you can't get any lower than none! This means that you will only use an R1 report when you are sending a blind "SRI NO CPI 73 SK" and aborting the QSO!

STRENGTH is reported on a scale of 1 to 9, where 1 represents faint signals and 9 represents extremely strong ones:

- | | | | |
|-----------------------------|-------------|--------------------|--------|
| 1 Faint, barely perceptible | 2 Very weak | | |
| 3 Weak | 4 Fair | 5 Fairly good | 6 Good |
| 7 Moderately strong | 8 Strong | 9 Extremely strong | |

The RST system is older than S-meters are, and really refers to apparent strength as compared to other signals on the band. Thus in the great age of wireless, a signal that we would automatically describe as S2 or S3 according to our meters might have been reported as S8 or S9.

A great degree of judgement is called for in giving a strength report. S-meters are not very objective, despite attempts over the years to standardize them. Your manual may say that the meter is calibrated so that an RF signal of 50 microvolts at the antenna is indicated as S9, but there are other factors such as receiver performance and linearity that make your ear a better judge.

So meter deflection should be taken as a relative indication only; the strength report should be based on how the signal sounds in relation to other signals on the band.

Never, never, never give a report of S0. It just makes you look silly, because if there is no signal strength at all, there is no signal—and nothing for you to report on in the first place.

By the same token, the practice of reporting "dB over 9" should be discouraged. For example, you will sometimes hear reports like "S9 PLUS 10DB." Your meter probably can measure the 10db fairly accurately, but the S9 is always going to be arbitrary. Besides, by definition, an S9 signal is "extremely strong" and if you think about it, saying "Extremely strong plus 10dB" is just a waste of bandwidth. If you do want to report that a signal is pegging your S-meter, put it into a text comment, not the RST report.

For practical purposes, readability can give a clue to the appropriate strength report, at least to this extent—if the readability is 5, strength shouldn't be less than 3. There are exceptions, it's true, but they should be relatively rare.

TONE. Yes, tone.... Well, what can we say about tone? The tone report literally goes back to the days of spark. Today it serves no real purpose, and would probably be eliminated from standard usage if it weren't such a "defining" tradition of CW operation!

T1 is defined as a rough, hissing note, while T9 is defined as a pure DC note with no trace of ripple. In technical terms a report of less than T9 indicates that there is some form of AC modulation on the signal. You should never give or get a report other than T9 unless there is a serious fault in the transmitter. In practice, you may occasionally get a T<9 report from someone who doesn't know what he is talking about! Technical faults such as Chirp, Drift and Clicks do NOT mean sub-standard tone.

I once got a report of 5/9/8 and I was so shocked I nearly broke the paddles going back with "WHY T8 ? WHY T8?" The answer I got was "SRI OM RCVR HR NOT VY GUD." He knew the fault was in his receiver, but he still wouldn't change my report. Oh, well.... May all your reports be 5/9/9.

SUNDAY QSO PARTY REPORT

Don KC4UUG

Don says: During the QSO party on July 2 I received a direct lightning strike on my R5 antenna. The R5 scattered itself all over the back yard, circuit breakers popped, the TV went over the hill, the phone answering machine burned out, and my laptop computer got knocked silly, but is still working -sometimes. I saved the rig.. So I have spent almost a month trying to restore order and may I add that the sound of thunder has taken on a whole new meaning.

By golly, sometimes ham radio works good! Diane AA2WG and her OM sailed their boat to Bermuda from Long Island (round trip) during July and had asked Maggie and me to keep a radio watch for them. And would you believe that we never missed a schedule during the 24 days Diane and Roman were away from home? The weary travellers are now safely back home, after their return trip was delayed by the passage of hurricane Chantal.

It is with great sadness that I have heard of the passing of my radio friend and FISTS member Jeanie **W7JAW**. We had both become FISTS at near the same time and I felt a special friendship for her, and I will always remember those enjoyable QSO's that we had; Rest well, Jeanie, I shall not forget you.

Sunday Party Report for July 2 - July 30, 1995

Condx for the whole month were very poor - QSB and weak signals - FISTS could not hear each other.

July 2: Your host was struck by lightning while checking in N8IAG, and Dick N4VEF stepped in and ran Party. Much thanks, Dick.

N4VEF, N8IAG, KE3NV, NP2GP, VY2RB, NA8G, KD4OGV, KA8OQF

July 9: AA2WG/VP9, NP2GP, N8UJZ, N4VEF, N2PLE, KE3NV, KD4OGV, NP2GQ, W1CW, WA6IPF

July 16: NP2GP, NS3E, KB8KRD, N2PLE, N4VEF, W2WSS, KE3NV, AD4KX, KD4OGV, AA0IQ, N8UJZ, K7WF, DL6UDX, WA0FGV

July 23: N8FU, NP2GP, N4VEF, N2PLE, KD4OGV, KE3NV, NP2DJ, WB2FXK

July 30: W2WOE, NP2GP, KE3NV, N2PLE, KS4UV, WO8E, KD4FLO, KB8KRD, KD4OGV, W1CW, N8UJZ

A FISTS YEARBOOK

How many members are interested in a Photo Album? The plan would have members submit a snapshot showing their FACE of a size fitting into a 1" x 1-1/4" rectangle.

The photos would be trimmed, saving only the face with callsign typed underneath, and be assembled 40 per page, similar to a high school yearbook.

Using high-quality photoprinting, 400 members could be put on 10 sheets. An index, listing callsigns and the page the photo is on, would permit rapid locating

of individual photos.

A VERY preliminary investigation shows the entire 10 sheet picture book in a durable, expandable cover could be sold for \$2 to \$3 postpaid. New sheets and a revised index could be added whenever 40 pictures of new members became available. Would you do your part to make it a success by sending in a snapshot? Do you have any other ideas we could incorporate?

Silent Key

I'm sorry to tell you that Gail Murray **VE3GSQ** recently passed away because of a heart attack. I never had the pleasure of meeting Gail on the air, so I will let her dear friend Merle say a few words:

"Gail was a long standing friend of mine as we shared 20 years or more as net control on the Eastern Canada Net, and she on the Ontario Quebec Net. We both were long time participants on the Eastern Area Net.

Besides being a sweet and energetic person and a very active ham, she was a superb CW operator.

Both FISTS and I have lost someone special"

MORSE 2000 Outreach

Mike N9JIY sent me a copy of MORSEIs, which is the newsletter of the Morse 2000 Outreach, promoting Morse Code uses in Rehabilitation and Education. It's a collaborative effort of the University of WI-Eau Claire, Trace Research and Development Center at UW-Madison, and the Johns Hopkins University Center for Technology in Education. (whew! That's a mouthful, hi)

This group represents several countries and many professions, like engineering and education. They all agree that the clinical potential for various Morse code applications is significant. They mention success stories from Saginaw MI using Morse code to help disabled children write, and have projects underway in using Morse in adult rehab.

Here is a quote from their newsletter: "Research and clinical experience are indicating that the fast rate of entry and low level of physical exertion inherent in Morse code can make it a viable, competitive method of microprocessor control for many disabled persons. This alternative computer access method can help bestow the power of speech output, writing, typing, dialing, graphics, music, and other modes of expression. Also Morse code input to activate mobility and environmental control devices may open worlds of educational, vocational, and recreational opportunities to many persons previously shut out of these pursuits. To find out more or subscribe to the newsletter contact Dr. Thomas W King SLP, Dept of Comm.Disorders, Univ of WI-Eau Claire, Eau Claire, WI 54702-4004. EMail: KINGTW@UWEC.EDU.

Thanks for sending in this info Mike; keep us posted on their progress if you hear more. It sure sounds like a facinating worthwhile project!

Welcome to the New FISTS

There was an error last month - somehow I received two separate applications for Al **KA7NDX** and consequently assigned him two different numbers. Number 1784 is the correct one, and I have reassigned 1768 to Mel **KA8CKL** in MI (NP2GP, KC4UUG, AA0IQ) sorry for any confusion!

1793: W4IUI Mert from North Carolina (WB2FXK)
1794: W8LFJ Kerm from Ohio (highly recommended by KE4HZM)
1795: KE4HIA Brian in Virginia (WZ8C)
1796: NU7D Randy in Washington (N7CFA, K7WF, KB7SVA, KJ7OX, WB7PEI)
1797: N7OPW Earl in Washington (KJ7OX)
1798: N3KNX Joe in Maryland (WB9CIS)
1799: KE4PPI Pete in Florida (W3HK)

The 1800 block of numbers is being used by DX, so we skip to 1900;

1900: WA7YYY club call for Washington FISTS group, name to be determined
1901: KA7BLA Gerry in Washington (N7CFA)
1902: K3DC Bill in Florida (N1QLF)
1903: KS4OT Jimmy in Georgia (KS4UV)
1904: KB2VTI Jerry in New Jersey (CompuServe)
1905: WB0AUQ Bob in Kansas (AA8HV)
1906: W4IRE John in North Carolina (AE4AZ)
1907: W3ILG Ken in Ohio (?)
1908: W0AP Mac in Nebraska (WB2EZG)
1909: N1MVU Kim in New Hampshire (Triple States ARC newsletter)
1910: AB5XP Mike in Louisiana (AE4AZ)
1911: KE4GBE Mike in GA (sponsor?)
1912: AE2L Joshua in NC (sponsor?)
1913: AE8I Ken in Ohio (sponsor?)
1914: KB8YRB Joe in MI (WD8OCV)
1915: N9TRK Steve in WI (WD8OCV)
1916: AB7BS Phil in Nevada (CompuServe)
1917: KC7BNG April in Nevada (AB7BS)
1918: KC7BNH Alexis in Nevada (AB7BS)

Magic Antenna Sequel

Mike **N9JIY** moved the feeder connection 4 more feet off center on the antenna he wrote about last month. Now it loads on everything from the bottom of 160 to the top of 10meters!

Supplies Available

I wud like to let members know that I have a new supply of the gold FISTS logo stickers. They are \$5.00 for 200 stickers, postpaid. Anyone wanting a copy of the last CW Coast Guard transmission with transcript it's always available, pse send cassette for copying. There are also copies of "The Art and Skill Of Radio-Teleg-raphy" on hand, they are \$10.00pp. The blue enamel Fists logo pins are \$3.50pp. de Irene, **WO8E**
25206 Hayes Roseville MI 48066

The New FISTS Member List

by Ed N7CFA

As you may have read in the July KEYNOTE, I have volunteered to prepare the FISTS membership lists. When the list is published, please check your information carefully and if it is not correct please let me know via one of the modes listed in the title block. Also if you have any other comments, good or bad, on the format or anything, please feel free to tell me. You, the member, will be my best proof reader.

The list is in a somewhat modified callbook format. Set up the same except that there is no individual listing as to country. VE's US, etc. are all together, but they all have a call number or area number, so look there first, then for the first letter of the suffix, just as in the "real" callbook. There are so few in each of several areas, listing by country would be more space and work intensive.

The UK/Europe lists are not available to me yet, but Geo will probably have them to me by the time of this publication. They will come in dBASE format and that is a new one for me but my attorney son-in-law promises to take by the "Fist" and lead me through it. Be patient.

Anyone needing additional lists at any time may receive one. Just send a #10 SASE with one unit of postage to my address as shown on the title block or look in the callbook or any Ham database. 73!

Thanks so much Ed, you are doing a terrific job with this monumental task. It's taking some of the workload off of me, which I really appreciate, specially as we are growing so quickly. Not having to maintain a member list database in addition to a mailing list is a real break!

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From Here and There

Cliff **N2PLE** sends along a cartoon that says "Senior Citizens are the biggest carriers of AIDS: Hearing Aids, Seeing Aids, Chewing Aids, Band Aids, Walking Aids, RolAids, MedicAids, Gov't Aids....."

George **KB2QLK** will be *kicking* 61 years in November. There is a commercial for Folgers coffee that begins "these's nothing like waking up with Folgers in your cup." George sings it a bit differently. "There's nothing like waking up - like waking up with or without Folgers in your cup." (HI)

FISTS aren't feeling OLD, are we? From these notes to WO8E's commentary about getting older from last month, I'm starting to worry! Or am I just more sensitive to it because I am going to hit the big FOUR OH! in 2 months???

It was good to hear from Dick **N1ITW**. He hasn't been on the air too much lately, spending most of his time flying and "playing" the stock market. He notes that he joined FISTS about a year ago and became #1492, and now we are on #1792 and beyond! Hope you find time to get on the air for the Sprint and SKWeek this Fall, Dick!

Alan **N3ITF** voices his support for the Correspondence Code Course, whatever it ends up being. He's always looking for ways to either improve his code, or speed it up. He says he knows practice is the only way, but something innovative or different in the way of code training would definitely be welcome.

Jon **AB4MT** moved from Miami Beach FL to Tustin MI. With our MI weather the way it's been I bet he won't even notice any difference in the climate! Welcome to Michigan, Jonathan!

Mike **KE2NT** is enduring a very hot summer. His area is in a severe drought. He tells of the reservoir being so low you can walk thru the town that was flooded when the reservoir was made. People that used to live there are coming back to see their old homes. Wouldn't that be a strange feeling? Maybe we'll have an early Fall, Mike says the two trees that are the first to change colors in the fall are starting to turn already!

George **KB2QLK** also shares that he just bought an S-38B receiver from a fellow QCWA member for \$30. George's first receiver back in 1950 was an S-38, it cost him \$39.95. He says some hams will tell you that Hallicrafters model was a piece of junk with no selectivity. Well, he heard 60 countries and confirmed all 48 states on both CW and SSB as an SWL. He will use it on the air when it arrives. He uses the Johnson Ranger and Kndw R1000, but also has a Hallicrafters SC-110 that is fun to use on Classic Exchange nights.

So, he is looking forward to the arrival of the S-38. FB George, it sounds like the S-38 will have a good home! Hope the QSO parties come in loud and clear for you

Rather alarming news from Bill **WBZNH**. While being diagnosed for a medical problem, the Drs. gave him a heart attack! After that, during his surgery they over anesthesiologist him and had a hard time getting him conscious again. All in all, he has had enough to do with doctors and hospitals for a while! This happened last April and he is just getting back to normal Bill was able to help out at his local Field Day, but hasn't had much desire to do much hamming. Hope the idea of our Sprint and SK Week entice you back into the hamming spirit, Bill! Some cooler Fall wx probably wouldn't hurt, either!

Century Award Clarifications

Century Award applications are starting to come in, must be easier to get now that FISTS is growing so quickly, hi Not that it's an EASY award, it takes a lot of time on the air! But along with the applications come questions, so I thought I would take a paragraph or so and clear up some misconceptions.

POINTS: North Americans and Canadians are one point. All other countries are 2 points. Anything outside the NA continent is considered DX- including Mexico USVI and Bermuda. **GX0IPX** is worth 5 points.

IMPORTANT: Work one FISTS only one time for a point. If you check into the QSO party all month and talk with Maggie **NP2GP** each week, you cannot claim 8 points total for the contacts. However, if you work Maggie while at her home QTH, then work her again when she is visiting Florida, and operating under the callsign **NP2GP/4**, you can count the /4 contact as one point (1 point because she is in the States) This goes for anyone who is operating /portable or /mobile. It's a valid new contact because they are using a different callsign from a different QTH.

The FISTS you worked has to have been an active FISTS (dues paid up) member at the time of the contact. YOU don't have to be a FISTS member to get the Century Award. So if you worked some FISTS before joining yourself, those contacts count toward your total score. If a FISTS becomes a Silent Key or drops their membership before you turn in your C.A. application, that's OK. As long as they were a FISTS member at the time of the contact, they still count.

The basic award is for 100 points, you can get additional awards for each group of 100 points. I think John **N8FU** is the champ at this. If I remember correctly he is working on his Fourth Award.

You do not need to submit QSL cards, just a list of the contacts, times and dates and claimed total.

For now, send the apps to me at POBox 47 Hadley MI 48440-00047.

If anyone is interested in be the custodian of this award, let me know. I'd supply the certs/envelopes/stamps, you would just have to process them.*

FISTS Fall Sprint

by Pete K8OUA

It's almost that time! About six months ago FISTS sponsored the Spring Sprint, and while the turnout wasn't overwhelming, those who did participate had a ball. It is now time for the FISTS Fall Sprint, essentially the same format as its Spring cousin. The Fall Sprint will take place on Saturday **October 14**. The time of the event will be 1700 - 2100 UTC (1300 - 1700 EDT if it makes you feel better).

The object of the Sprint is to contact as many other hams as possible, with a scoring advantage coming from contacts with FISTS members. The contest is open to non-FISTS as well as FISTS members. FISTS does not do too much with contests and it would be great to see a big turnout for this one. The contest is, of course, a very friendly and low key one. You are invited to have a short chat with each FISTS you work, or to spread the word about FISTS to any curious non-FISTS you come across.

In the Spring Maggie **NP2GP** walked away with the honors, and rumor has it that she is out to win this thing three times in a row, and retire the cup to sit in her trophy case on the yacht. Well, maybe Maggie didn't really say that, but I'm sure it's a nice thought for her (HI). Winners do receive a very nice certificate. In fact, there are certificates for the top 3 high scorers.

Here are the important details about the FISTS Fall Sprint — Date is October 14, from 1700 - 2100 UTC. CW only (of course). Contacts allowed on 10, 15, 20, 40, 80, and 160 meter bands. Work stations once per band. Exchange is Name, State/Province/DXCC country, FISTS number (members) or Power Output (Non-FISTS)

QSO Points - count 5 points per QSO with FISTS member, 2 points per QSO with non-FISTS

Multipliers are State/Province/DXCC Country - **count each only once as multiplier, not once per band.**

Score is number of QSO points times number of multipliers.

Use FISTS frequencies — 3.558, 7.058, 14.058, 21.058, 28.058 MHz, in addition to the Novice bands. Call CQ FISTS on these frequencies.

Send your logs to me, Peter Kozup, K8OUA, at 5115 N. Park Ave., Warren, OH 44481. If you include an SASE I will get the results out to you by mail.

We're aware that many out there in FISTS-land do not see themselves as contesters, but we hope that you will at least try this little contest. You should have lots of time to say a few words to other FISTS on the bands during the contest. Most importantly, it will give you the chance to meet some new FISTS and to spread the FISTS gospel. I look forward to meeting you on the bands, enjoying a quick contact and another five QSO points (and maybe even another multiplier) for my FISTS Fall Sprint score. Hpe CU There 73/88 Pete K8OUA.

*I hear that Don **KC4UUG** is going to give Maggie a serious challenge this time around! Let's get out there and have some fun! It's only 4 hours long!!!*

Condolences

Please join me in sending our condolences to Dale **N3MEE** on the passing of his wife. We don't have any details at this time. You have a lot of friends in FISTS, Dale we hope you know our thoughts are with you.

QSL BURO

Just a reminder to send John **N8FU**, whose address is on the masthead of the first page, a couple SASEs so he can send out your QSL cards. It's no fun being a QSL manager of a buro when you can't send out the cards! Thanks for all your time and work John!

Membership Certificates

With the help of Chuck **N8WDH** (*Oh no Chuck I'm writing about you AGAIN!!* <smile>) I'm just about ready to play catch-up and get the membership certificates out. These are waaaay overdue and I have over 100 to make up and address so please continue to be patient. The style is a bit different from the original with the hand/globe logo. These feature the key with the FISTS logo. And instead of saying 'please use straight key under 20 wpm' they say "accuracy transcends speed" and "courtesy at all times". I think you will like them.

Charlie's FISTS Slow Speed Net

Are you looking for a good place to have a ragchew with other FISTS during the week? Do you enjoy the atmosphere of a CW net, but have little or no interest in traffic handling? You may find that a net under the control of Charlie **KA8OQF** in Dayton Ohio might be just what you have been looking for. Charlie has been working hard at getting a slow speed net going on 3.720 every Wednesday evening at 2400 UTC (8.00 PM Eastern Daylight time).

Charlie has slowly been pounding away every Wednesday night, but has not been getting many check ins. If you would like some good slow speed code practice every week, without the formality of handling traffic, or other business, check out Charlie's FISTS Slow Speed Net.

The Insect Filter

A variable bandwidth filter with a very narrow bandpass.

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PACKET

I am happy to report that I am back on packet again, without any major trauma or expense! For some mysterious Computer Reason, the computer which had previously reported itself zapped after the last electrical storm is working again. I am not going to question the how's and whys of this, I am just glad to be back on line.

Geo **G3ZQS**, has discovered the advantages of packet (you may remember reading his comments about this a few months ago) and wants to compile a listing of all the FISTS both DX and NA on packet for future publication.

So please help us out here, and send your packet address to Geo via **G3ZQS @ GB7HVU.#16.GBR.EU**. If you want to be double sure he gets it, you can also send the info to me **WZ8C @ KF8JS.#NEMI.MI.USA.NA**. or via snail mail.

From what Geo is saying, there is a lot of FISTS info floating about in CyberSpace.

I know Vince **WB2EZG** has on-going debates on the Internet about the need for CW, if you are interested in reading that, check out "rec.radio.amateur.policy" in the Usenet..

I am a SysOp in the CompuServe Hamnet and we have many FISTS members who frequent the forums there. We have to be careful not to sound like we are advertising, but the WizOp Scott **W3NV** has been very lenient about letting us post FISTS inquiries and such. This computer stuff has become so indispensable to me, I think it would be impossible to keep track of things without it! I hate to even think of it!!

If you are lucky enough to have a computer as part of your shack equipment....or the kids have a CompuServe account for school work, get on and see how it can enhance your CW ham radio hobby!

Code Buddy Program

Pete K8OUA

Last month I described the new Code Buddies Program, and asked members to send me information about themselves if they were interested in being put onto the list of Code Buddies. Well, we have had a pretty fair turnout, and I hope I have not lost any of the names or calls. One problem that continues to plague us, though, is that we always have a larger list of those willing to help, than those needing Morse assistance. So, if you are one of those who really does need some help in working Morse, let us know, or, better yet, contact one of those who have signed up to be a Code Buddy. Here are names and calls and other information on those who have signed up as Code Buddies. These are in no order, they appear just as they came out of the manila folder I stuck them in as I received them.

Marshall Emm AA0XI — can work 80 - 10 meters, and 2 meters, any evening and weekends. Marshall comes over from VK-land, and can be reached by

phone on 303 752-3382; on Compuserve at 75230.1405; on the internet at 75230.1405@compuserve.com; or on FIDONET at 1:104/443

Paddy Liles W9LOH is presently working with Alvin **KF8UE**. Paddy's Compuserve number is 75501.271 which transfers to 75501.271@compuserve.com for the internet. His snail mail address is 18 Whispering Woods, Dawson, IL 62520.

Mike Gullo N8UJZ can work any band, but prefers 40 and 20. He thinks that 40 might be best for Code Buddy work. His address is Rt 4 Box 153, Weston, WV 26452. He can also be reached by phone on 304 269-7788. Mike is happy to QRS as low as needed, and is good up to about 25 wpm.

Maggie Putman NP2GP would especially love to help some YLs develop their code abilities. Maggie is best on 20 meters, but can also get on other bands. Contact her by mail at Lighthouse Marine Vitraco Pk, St. Thomas, VI 00802, or call her on 14.058 MHz during the day, and you are reasonably likely to find her there.

Joe Nihen, N3LBC is happy to help anyone wanting to rag chew, just practice, or make that first contact. He has all but 160 set up, though he feels that 40 would be best. His address is 222 East Bertsch St., Lansford, PA 18232

Paul Carreiro N6HCS is somewhat limited by the need for indoor antennas or mobile operation, and therefore wants to try to assist west coast stations. He can work all bands 80-6 mobile, but prefers 40 meters from home. While Paul is good to 40 wpm, he is willing to QRS to whatever is needed. Paul can be reached on any of the following: 3480 Garnet St #128, Torrance, CA 90503-3674; internet at garreiro@netcom.com; packet at n6hcs@n0ary.#nocal.ca.usa. na; by phone on 310 793-8793 (home) or 310 416-4831 (work). If you're a west coast ham, contact Paul.

Yuzuru Suzuki AA1JA/7N3OPC is interested in helping others in the 10-20 wpm range on 10 - 80 Meters. Tuesday evening from 1900 - 2200 EDT. Yuzuru has done a lot of hamming in a year and a half, holding WAS, WAC, & DXCC all on CW, a 25 wpm certificate from the ARRL, and a FCC 2nd Class Radiotelegraph license. Reach him on email at ys@isr.harvard.edu.

If you volunteered to be a Code Buddy, but your name and call has not appeared here, you have my sincere and humble apologies, please drop me another message to remind me. If you need help with your CW, let one of those on the list know, and hopefully, you will get the help you need. Reach me at 5115 N. Park Ave., Warren, OH 44481; on Compuserve at 76022.2303; internet at pkozup@kentvm.kent.edu; on packet at k8oua@kb8ast.#neoh.oh.usa.na; or phone me on 216 847-0975. 73/88 es CUL, Pete K8OUA

Thanks so much Pete, I know how time consuming all this stuff can be. Give your XYL a hug for us, for putting up with all this FISTS stuff!

FISTS Slow Net

by Pete K8OUA

The number of check-ins for the FISTS Slow Net exploded during the past month, with a high of fourteen eager traffic handlers checking in on the 0100Z session of 18 August. For those of you who missed me on the previous Tuesday night (0100Z 16 August) I apologize. I had interstate visitors stop in unexpectedly about half an hour before the net was to begin, and I just could not get away to run the net on that night. A solid FISTS "THANK YOU" to all who have QNI'd and tried the net. It's been great! One of the reasons for the great success has been the way you folks have responded to the package of information on traffic handling that I sent out to you -- FINALLY! I tried to get information out to you that would be both interesting and useful as you develop your traffic handling skills. Because you've done your homework so well, we are beginning to sound and act more like a traffic net, and that's the aim of the exercise. Hopefully, we're getting more and more of you interested in handling traffic, and maybe some of you will even look to joining your section NTS CW nets. Have a look at the article enclosed with the packet. There is a list of slow speed traffic nets in that article for you to consider trying.

Some who have QNI'd FSN, though, haven't tried to send or receive a message yet, and it is probably about time for you to do that. So, let's do it! For those of you who have sent messages to me, it may be time to start thinking about sending one to someone else on the net.

FSN provides an excellent way to add some points to your chase of that rather elusive FISTS Century Award. If you notice a FISTS on the net you've not worked before, write up a quick message with your FISTS number in it and QTC him/her. The NCS will call both of you and send you up or down so many KHz. It helps if when you do this you are able to copy the other station pretty well. Once you've QNY'd (QSY'd) to the new frequency, the station receiving the message should call to make contact, use 'QRV' to indicate your readiness to copy. After sending the message both stations should return to the NCS (just send the suffix of your call when you get back there during some break in the activity). It's always a good idea to wait a few seconds before moving off to see if someone else has been sent up/down to give you more traffic.

It's easy to miss words or parts of a message when taking traffic. This is especially true in a net like FSN when conditions often make copy very tough. The receiving station must let the transmitting station know when something has been missed and what it is that has been missed. The following abbreviations are used to aid in doing this. CFM (followed by the word in question) -- to confirm a word or number group you're not sure of; WA -- Word After; WB -- Word Before; AA -- All After; AB -- All Before. If you miss part of a message, let the sender know by using these abbrevia-

tions followed by what you did copy. If you do have solid copy, let the sender know by sending 'QSL' at the end of the transmission.

Also, it's important to let the receiver of the message know when you're done! Use "ARN" (didahdidah-dit dahdit) at the end of the message to indicate that this is the last message to be sent. If you're sending two or more messages to the same person, send "AR B(number to come)". For example, if I have three messages to send to Jack, WB2FXK, I send 'AR B2' at the end of the first one, 'AR B1' at the end of the second, and 'AR N' at the end of the third. Jack is then aware that the last message has been sent and that we're done.

I'm hoping that we'll have some new Net Control Stations for the net, in particular, John WB9CIS, and Mike N9JIY. If things work out right, these two will be taking the net on selected nights during the month. That'll be a great help to me, and hopefully, to you too. It will certainly be better overall for the FISTS Slow Net.

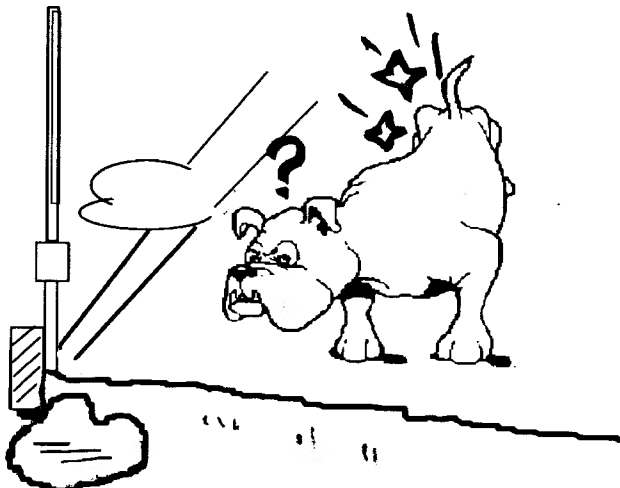
Here are the statistics for FSN from July 15 - August 18.

SESSIONS -- 8

QNI -- 70; QTC -- 27. These seventy checkins came from a total of twenty-eight different callsigns. Here are the stations that checked in during that time period and the number of times each checked in:

N9XNH--6; WB2FXK--5; KD4OGV--4; N1PVP--4; VA3KEW--3; KM4DY--3; AA1KF--3; KE4HZM--3; AC4WH--3; N1QLF--2; N3MEE--2; WB9CIS--2; K8KFJ--2; WG9K--2; KB0QZ--2; K1UNQ--2; N2HCU--2; AD4KX--2; KC4LHZ--2; KD3TL--1; KE3NV--1; N8NLE--1; K39VA--1; N1HYF--1; N9JIY--1; WF1M--1; AA1MU--1; K8OUA--8.

And, there you are. If you haven't tried to join us, but have some interest in traffic handling, please don't hesitate to check in. Also, for those of you who have just begun to QNI, and who haven't received your package of info yet, just be patient, I will get around to sending it out to you. But, I'm slow!! Till we meet on the CW nets, 73/88 es ARF, Pete K8OUA



Coherent CW

Peter **G3IRM** finally got Radcom to publish his article on CCW (Coherent CW) and it appears on page 38 of the August Radcom. He explains the principles and also gives reasons for the seeming unpopularity of a mode which should revolutionise CW if taken up. Imagine, 100 stations operating in every 1KHz without causing interference to each other. He also describes the software which takes all the headache out of CCW by relieving the operator of the necessity to adjust phasing whilst handling all the sticky stuff. The programme runs three integrate and dump filters at the same time which allows it to decide if the frame phase is drifting so that it can make its own corrections without operator intervention. computer and rig can be bought as a basic board or complete and ready to use.

Coherent software package (\$20.00), Circuit board \$24.00 or assembled and tested board ready for use (\$95.00) are available from Bill de Carle, VE2IQ at 29 Sommet Vert St., St. Adolphe, Howard, QC, J0T 2B0, Canada. All prices are in US dollars but \$5.00 is also required for post and packing.

If you have a computer (the faster the better although even an XT will suffice) and a fairly modern transceiver, Coherent (the name of the software) is worth a try. It can be bought on either size disc and the sigma delta board used to interface twxt computer and rig can be bought as a basic board or complete and ready to use.

Nature

This has absolutely nothing to do with Radio or CW but I simply had to share it with you.

Every now and then, nature deals you a hand which is infinitely more precious than a winning lottery ticket. On one of my Dayton trips, I lodged with **WO8E / WK8F** and the sight of a patient Irene coaxing wild squirrels to take "cookies" from her hand eclipsed all the delights that were to follow at Dayton.

The other morning Tammy and I were out on our constitutional. I spotted the fledgling from 50 yards but Tammy had switched his nose on and was more interested in some elusive smells. The chick was well and truly entangled in couch grass and when Tammy was within 10 feet of it the hen blackbird dropped behind him with open wings feigning injury and scolded him roundly. She didn't have my confidence in him but he spotted the chick, dug his nose into the grass, wagged his tail and left to complete his ablutions. I didn't even have to say "leave". The hen retired to the security of the trees and I split the couch, called Tammy to heel and we retired. Looking over my shoulder I witnessed what was probably it's first short run take off as the chick settled on a bush with quivering wings which said "I'm hungry - feed me".

A few of you will be aware that I am a nature freak and confirmed conservationist - now you know why.

I was delighted to see a mention on page 45 of the June issue of PW and they have gone to town in covering CW generally. Anyone with limited funds would be well advised to read the article by **G4BXD** where a simple home made single paddle (would you believe an old 6-inch rule) and some very basic logic, produced a very usable item. A couple of ubiquitous 555 timers together with a pair of 4027s and a 4071 form the 'meat' of the circuit and it should be possible to build this one for under a tenner. Indeed, **G4SLU** did just that and has included a few tips such as a veroboard layout. "Wot's veroboard?" I hear some of you ask. Whilst I confess that it has largely gone out of fashion (being replaced with home made PCBs) it was great for laying out simple circuits prior to bringing the local power company to its knees.

Editor; Rob Mannion (**G3XFD**), expands on the problems of learning (or teaching) the code and drifts between inked tape (ughh), punched tape and electronic tutors. Interestingly he poses the question; why is it that after I learned the code (sound-wise) was I able to read an aldis lamp? I was about to refer him to my tame psychoanalyst but he answered the question himself. Once the neural connections (synapses) are made, the brain is able to accept the rhythm from any of the senses (I aint yet smelled it). I knew many deaf ops who read by simply touching the cone of a speaker and as a young matelot with my pals in the company of girls, we used to discuss their relative merits in their presence by simply tapping code out on the table top. We even communicated visually by tapping an imaginary key on a sleeve or tunic. Fortuitously we never encountered a young lady who could read our comments.

There are also illustrations of many commercially available keys which I confess made my mouth water.

FINALE

That's me for this month folks though no sooner will these letters be in the post than I will be involved in the September Keynote. During the evenings, members may find me or each other on 3.558 or thereabouts but do please check frequencies around 3.575 for Alex and other Novices. Daytime on 40 is feasible and here, 7.028 (If) is perhaps the best bet. If the band condx permit then 14.058 and 21.058 may well raise a US gang which is now approaching 500 members. You have lots of choice. Have fun and stay out of the cold. Hi. 73/88 es stay sober de Geo

I'm afraid I'm to blame for the DX news being short this month. Last month, Geo sent the August Keynote within days of sending the July issue. I didn't realize they were supposed to be 2 seperate issues, and printed many articles last month that were supposed to be saved till August! We'll get this right sooner or later, suppose??!! Deadline for inclusion in Sept Keynote is 9/20. I hope to hear from YOU!! 73/88/33

Nancy WZ8C

FISTS C. W. CLUB

CHECK SHEET FOR CENTURY AWARD

NAME _____ CALL SIGN _____ MEMBER NUMBER _____ DATE _____

[illegible]

DX FISTS = 2 POINTS • NORTH AMERICAN FISTS = 1 POINT • 100 TOTAL POINTS REQUIRED FOR CENTURY AWARD

**LIST BY
NUMBER**

KA4 IFB	ESTHER	0011
W1CFZ	RUSS	0294
WB2 EZG	VINCE	0315
WZ8 C	NANCY	0379
NS2 G	HELEN	0393
WB9 CIS	JOHN	0531
N3 EYM	BILL	0655
WO8 E	IRENE	0656
W8 LRY	DAVE	0719
WU6 Q	LEE	0739
VE7 ERA	OLIVE	0743
K2 SWZ	BERNIE	0748
W8 LHG	RALPH	0794
VE2 GOO	TONY	0864
WE6 V	JIM	0865
W8 PBO	ART	0866
W8 YBS	FRED	0881
WA8 BIJ	VINCE	0905
VE5 RD	BOB	0907
W4 NJK	CHARLES	0908
NS3 E	ED	0909
KC4 UUG	DON	0910
W4 NZP	BILL	0911
AA8 MI	GENE	0914
KB1 FK	ALBERT	0916
W7 JAW	JEANIE/SK	0917
WB2 FXK	JACK	0918
N8 FU	JOHN	0920
K3 SZG	ED	0922
N0 RDQ	PAT	0923
WK8 F	KEN	0924
AA8 NQ	KEN	0927
W7 JAT	VERN	1002
N2 NTO	BOB	1004
VE6 VIA	BERYL/KA7VIA	1005
KA7 VIA	BERYL/VE6VIA	1005
N2 CG	GEORGE	1006
N2 PLE	CLIFF	1011
ND9 X	FRANK	1012
N3 IJR	KARL	1013
N9 BWG	DON	1015
AA8 HV	JOE	1016
KA2 GJV	BRUCE	1017

N2 LDK	FRED	1020
AC4 FN	DAVE	1021
NU6 Q	PETE	1022
W8 ZNH	BILL	1023
W2 FB	HOWARD	1024
WK1 H	ARNIE	1027
NC2 B	MARTY	1028
AC4 VL	GREG	1029
KE2 NT	MICHAEL	1031
WI9 S	RICK	1033
WJ3 W	DOUG	1034
N3 ITF	ALAN	1038
AA2 LK	BRIAN	1042
AA3 EQ	LEN	1043
AA7 JM	VAREL	1044
AA8 RV	MIKE	1046
K9 QVB	JOHN	1047
N9 LGP	DAVE	1050
N9 SW	GENE	1202
KB5 HRS	PETE	1206
KC1 DI	DAVE	1210
AA0 IQ	CLAUDE	1211
K9 VKY	BRIAN	1212
AA8 UG	IAN	1213
N6 OF	DAVIS	1214
N4 VEF	DICK	1215
N1 FPG	STEPHEN	1217
K1 UNQ	CARL	1218
AA3 AV	EUGENE	1220
N8 IAG	BRIAN	1221
NT1 M	ARTHUR	1222
KF8 YM	GENE	1223
KC4 OCS	DON	1224
NA8 G	KEN	1225
KD1 QG	BRUCE	1227
N5 WXE	TOM	1227
KF9 TU	GREG	1228
KI5 EL	FRED	1229
N8 AYQ	JIM	1230
N8 JIM	MARGIE	1231
VE9 AE	DARREN	1233
N1 IBL	CAL	1234
N3 LKS	GEORGE	1235
AA2 WG	DIANE	1237
KN4 GG	ALEX	1238
N0 HFF	BILL	1239
VE3 FS	BILL	1240
KA0 IQT	JAMES	1241
WB8 ZWW	WAYNE	1243
WB4 MAI	DOUG	1246
K4 KUZ	MIKE	1247
WB8 SLU	BILL	1248
KY2 R	DAVE	1250
KJ6 GR	BILL	1252
K5 XK	RONALD	1253
K8 OUA	PETE	1254
WX3 L	MIKE	1256
N8 WDH	CHUCK	1258
AH8 AC	JOHN	1259
KA2 YDT	JACK	1261
WA2 L	ANDREW	1262
N6 MLW	DAVID	1263
K4 RDU	BOB	1264
VE3 ZBB	ELIZABETH	1265
KD4 FUE	BOB	1267
N3 PM	JOE	1268
N7 HSD	ART	1269
WA3 CSF	JOE	1271
N1 NGM	NORMAN	1273
KR4 VQ	CARL	1274
KC5 DSN	JOHN	1275
VB8 BHP	DAN	1276
KF2 QY	CHET	1278

W2 WSS	PETE	1279
W3 OKN	MERLE	1281
N9 JIY	MIKE	1282
AA1 HO	ARTHUR	1283
W20 W	SLEET	1284
WA0 FGV	ARTHUR	1286
NP2 GP	MAGGIE	1287
N1 KHM	KENNY	1288
KB0 ZE	AUBREY	1289
AA1 HV	ZOEL	1291
NP2 GQ	GREG	1292
NY2 V	FRED	1293
N1 HYF	SHIRLEY	1294
N8 MHV	CONRAD	1295
N1 MFR	GARY	1299
AA3 DU	MICHAEL	1400
W4 AET	WAYNE	1401
N7 CFA	ED	1402
KS4 BX	ROGER	1403
WO8 U	KEN	1404
KF9 OE	DON	1406
N6 HCS	PAUL	1407
KK6 OQ	JOHN	1408
KF2 DD	WILLIAM	1409
VY2 RB	DICK	1410
N9 DSP	MATT	1412
VP5 P	MIKE	1413
W6 CF	JIM	1414
K8 NA	TED	1415
N2 ALE	ALAN	1416
WA8 KSS	RALPH	1417
KB8 RHG	SARA	1418
N0 DLJ	DAVID	1419
W3 HK	GEORGE	1420
WB1 U	RAY	1421
WB2 JKK	RC of JHS22	1422
WA1 LGU	CAROL	1423
KF9 RK	TONY	1424
N3 MEE	DALE	1425
KK4 HW	JULIUS	1426
N8 XKE	MARILYN	1427
N3 NNH	ANDY	1428
KA1 ZQR	DICK	1429
KA5 TUF	BILL	1430
W1 BFT	CARL	1431
K7 AU	MURRAY	1432
N5 ZYR	JOHN	1433
N8 RXW	CHUCK	1434
K4 TWJ	DAVE	1435
WU0 V	LEE	1436
N0 ZDT	COURTENAY	1437
N0 PDR	MARILYN	1438
N8 XKF	BERNARD	1439
AA2 KS	RICHARD	1440
KC5 JEV	ERIC	1441
KP2 Q	KLAUS	1442
W3 XX	"THE SUB"	1443
N0 YEE	ELLIS	1444
N1 DMN	GEORGE	1445
KW8 U	BOB	1446
KD4 ICT	DAVID	1447
K4 TKJ	JIM	1448
VU9 E	PHIL	1449
N1 KLP	STEVE	1450
W3 TI	ALAN	1451
VE3 OT	MITCH	1452
KA8 AMX	TRISH	1453
AC8 W	STAN	1454
N8 NLK	DAVE	1455
KE8 M	HOWARD	1456
KB7 UFS	GEORGE	1457
VB4 VFN	RICHARD	1458

AA5 PN	STAN	1459
K8 LJG	JOHN	1460
N2 WCR	JOHN	1461
K2 SB	STEVE	1462
KJ8 M	RODGER	1464
K8 BTH	WAYNE	1465
WA8 MEM	DWAINE	1466
WA4 OSR	MITCH	1467
N1 IUD	RON	1468
N2 ELW	LARRY	1469
N8 ABR	FRED	1470
W8 CYG	JOE	1471
WA2 OVT	ROBERT	1472
KD8 DA/XE1	GEORGE	1473
K9 ZCH	LARRY	1474
KF7 AY	WARREN	1475
W8 NOT	KEN	1476
W2 WOE	CHUCK	1477
KA8 OQF	CHARLIE	1478
N6 QD	JOHN	1479
N3 HLM	MIKE	1480
VE2 OBK	BOB	1481
KG0 RI	CHARLIE	1482
N9 URB	JOHN	1483
K8 AN	RALPH	1484
KA9 RPR	PAUL	1485
K8 MPF	DAVE	1486
W4 TWB	RAY	1487
VE7 DWA	DAVE	1488
NP2 DJ	DEBBIE	1489
N4 JQ	ROBERT	1490
KC1 MI	JOHN	1491
N1 ITW	RICHARD	1492
K7 WF	STU	1493
K8 LEN	PATRICK	1494
AA8 FQ	FRED	1495
N8 SBN	FRANK	1496
NF0 Z	LARRY	1497
N1 DWA	CLIFFORD	1498
KB5 WKX	ED	1499
WG3 U	JOHN	1500
WB0 JNR	ROGER	1501
KE3 NV	SCOTT	1502
KJ5 BN	GORDON	1503
WB3 KMX	RONALD	1504
KC5 ASD	JOHN	1505
KD4 FLO	JOHN	1506
KA9 MIV	BRENT	1507
WD8 OCV	KON	1508
KA1 ZVX	WESTON	1509
WB8 QZK	CRAIG	1510
KB8 KEJ	CHER	1511
KD4 DDI	PAUL	1512
VP2 VI	BOB	1513
AD4 PT	DON	1514
N8 JIW	DON	1515
WX4 S	ED	1516
WB4 WNO	STEVE	1517
KE8 UM	MURRAY	1518
KD4 D	MARK	1519
VP9 NC	JEFF	1520
W6 OLD	DICK	1521
KB1 AXF	BILL	1522
KB8 OHF	TIM	1523
KA3 WMJ	KEN	1524
W6 DDB	BILL	1525
WZ0 O	RICHARD	1526
W8 MVN	ERNEST	1527
KA2 OYF	BARRY	1528
K6 ZAN	RALPH	1529
KJ7 NR	STEVE	1530
KN4 OA	CHARLES	1531
AA6 WC	JOE	1532

N1QLF	MARGIE	1533	KC4JGT	LYN	1708	KB0QZ	MARTIN	1780
KC5DUI	BOB	1534	AC4ZH	DUANE	1709	KA1IUI	MAX	1781
NV1X	BOB	1535	N8DIX	STEVE	1710	W9BRD	RODNEY	1782
KE1BB	FRED	1536	WA9S	CHARLES	1711	W6GRF	GEORGE	1783
WN8MWM	SCOTT	1537	WZ8U	LOREN	1712	KA7NDX	AL	1784
KB2QLK	GEORGE	1538	KB8ROG	CHARLES	1713	AF9H	PATTI	1785
AD5SB	BOB	1539	W9CC	LARRY	1714	KB3BFQ	ERIC	1786
AD4VL	JIM	1541	WA3WSJ	ED	1715	AD4OS	KEN	1787
VE3UOL	DAVID	1542	K5FO	CHUCK	1716	KC4LHZ	ELLIOTT	1788
AA1JA	YUZURU	1543	K5SO	CHUCK	1716	KK5JV	RICK	1789
WI9X	JIM	1544	N9ROR	GREG	1717	K8MEG	RICH	1790
AA3JI	STEPHEN	1545	AA8TU	RANDY	1718	AA0XI	MARSHALL	1791
KB8SBX	MIKE	1546	WA3IVV	RICHARD	1719	KA2KDJ	GARY	1792
KC7DOV	CHARLIE	1547	KF8SY	ED	1720	W4IUI	MERT	1793
AA0HQ	TOM	1548	WA5Y	RUSS	1721	W8LFJ	KERM	1794
KB7SVA	DAVE	1549	NU1M	DAN	1722	KE4HIA	BRIAN	1795
K4AHM	LEARD	1550	AB6UN	WAYNE	1723	NU7D	RANDY	1796
WB8WCU	DON	1551	KB9GNP	PHIL	1724	N7OPW	EARL	1797
KJ7HQ	ORIN	1552	N9NTC	MIKE	1725	N3KNX	JOE	1798
N4YGP	KAREN	1553	K2YWE	DAN	1726	WA7YYY	COWLITZ	1900
KE4HZM	DICK	1554	KP4FWW	SERGIO	1727	KA7BLA	GERRY	1901
KF8RG	KEN	1556	N9NVV	LEE	1728	K3DC	BILL	1902
K4DRD	STAN	1557	AC4WH	BILL	1729	KS4OT	JIMMY	1903
N3LBC	JOSEPH	1558	K5HT	GEORGE	1730	KB2VTI	JERRY	1904
AD4KX	HARRY	1559	AB6YP	VERN	1731	WB0AUQ	BOB	1905
N1SEZ	PAUL	1560	K8KFJ	GARIE	1732	W4IRE	JOHN	1906
KQ4IY	RAY	1561	WB7PEI	BOB	1733	WB8KQJ	KEN	1907
KC5HXP	RON	1562	AA1KF	JOE	1734	W0AP	MAC	1908
AB5TY	MACALEE	1563	N2HCU	MIKE	1735	N1MVU	KIM	1909
N3CUD	ROBERTA	1564	WA0F	MARK	1736	AB5XP	MIKE	1910
W2ESX	JOHN	1565	N8OHC	BILL	1737	KE4GBE	MIKE	1911
NA9A	JOE	1566	K7CI	JOE	1738	AE2L	JOSH	1912
KB7YJW	JAMES	1567	W0UCE	JACK	1739	AE8I	KEN	1913
AC6IA	GREG	1568	W9LOH	PADDY	1740	KB8YRB	JOE	1914
AA1HJ	DAVID	1569	KM4DY	THOMAS	1741	N9TRK	STEVE	1915
KF2ON	WILLIAM	1570	VE7AVC	VIC	1742	AB7BS	PHIL	1916
N8UJZ	MIKE	1571	KF8UE	AL	1743	KC7BNG	APRIL	1917
KC5GXL	DAN	1572	KB8NTE	BILL	1744	KC7BNH	ALEXIS	1918
AA3JV	CRAIG	1573	KC9DT	HERB	1745			
N3BTM	JOHN	1574	KC7IG	ART	1746			
KJ7OX	BRIAN	1575	KC5NZR	RICHIE	1747			
KP4DJ	WILLIAM	1576	W2TMN	MARTY	1748			
N2YKH	BILL	1577	KC5BUB	CHARLENE	1749			
AA9DK	GREGORY	1578	N9XNH	JOHN	1750			
N9MCQ	MARK	1579	KB6EII	BILL	1751			
K1ARO	RICHARD	1580	KB8KRD	DON	1752			
KE4AGT	JIM	1581	W1CW	BOB	1753			
KB8OOM	SAM	1582	AD4EP	GEORGE	1754			
W3ZIF	ROYAL	1583	KB7ZTU	KEN	1755			
KB0QVB	RICHARD	1584	N8NLE	JIM	1756			
WA2FVL	JOHN	1585	AA0QI	PATRICK-	1757			
KB0JTS	BILL	1586	No Call	C. Tilden	1758			
KD4OGV	CHARLES	1587	N2YQJ	ERNIE	1759			
KC4DY	GORDON	1588	KG8QT	MARTY	1760			
N2YY	JERRY	1589	AC5CM	MARION	1761			
AA0IO	CHARLES	1590	W8KUX	CHAS	1762			
N1RAY	CHARLES	1591	KC6FWH	JOHN	1763			
KG0KR	ELIZABETH	1592	KB1AVN	JON	1764			
KM4BR	RON	1593	KB0SJB	TOM	1765			
K5WTA	BILL	1594	KA8ZDL	CLARK	1766			
AC4WI	LOUIS	1595	KA4FZI	PHYLLISAN	1767			
AB7LK	GARY	1596	KA8CKL	MEL	1768			
AB4MT	JON	1597	KS4UV	ED	1769			
KB2BOY	STANLEY	1598	N1PVP	MARINO	1770			
KB1AUM	SHEILA	1599	ZP6CW	DOUGLAS	1771			
W1QMK	RICHARD	1700	AI9L	JESSE	1772			
K4OWN	SHERILL	1701	KB8TCT	BERNIE	1773			
KA5Z	RICHARD	1702	KS4JI	GARY	1774			
WA2CVV	LARRY	1703	N9ZNF	JERRY	1775			
AA0NR	RICK	1704	K2JYK	HAL	1776			
KB8TUO	JIM	1705	N9WCS	LARRY	1777			
WP4IIW	JOSE	1706	W7SK	RALPH	1778			
W10Z	JOE	1707	KF8WR	TED	1779			

Update:
16 August, 1995)

1100 Block - Dx
1300 Block - Dx
1600 Block - Dx
1800 Block - Dx